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Attorney's Docket Number 045090/196876

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **FARAMARZ FARAH**

Serial No.: 09/803,342

Group Art Unit: 2874

Filed: 9 March 2001

Examiner: Ullah, Akm Enayet

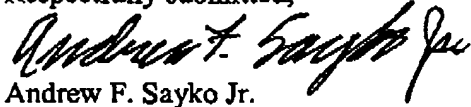
For: **INTEGRATED OPTICAL CIRCUITS**

**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

CLEAN COPY OF AMENDED CLAIMS

97. (Twice amended) An optoelectronic device comprising:
a substrate having a first surface; and
at least one optical interconnect formed on the first surface of said substrate
comprising a sol-gel based material including an active region defined in the sol-gel
based material, wherein the active region comprises rare earth ions.
99. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions
have transition lines in the about 0.2 micron to about 3.0 micron spectrum when
illuminated by at least one optical source.
100. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions
have transition lines in the about 1.5 micron range when illuminated by at least one
optical source.
101. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions
comprise a rare earth ion chosen from the group consisting of erbium, ytterbium and
neodymium ions.
102. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions
comprise erbium and ytterbium ions.

Respectfully submitted,



Andrew F. Sayko Jr.

Reg. No. 22,827

Andrew F. Sayko Jr.
P.O. Box 6339
Shallotte, NC 28470
Tel: 908-612-0519
Fax: 843-243-0446